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1 Routine/Function Prologues

1.1 Fortran: Module Interface spmdMod.F90 (Source File: spmdMod.F90)

MPI routines for initialization and computing arguments for different operations.

INTERFACE:

```
module spmdMod
```

ARGUMENTS:

```
#if (!defined SPMD)
    logical :: masterproc = .true. ! proc 0 logical for printing msgs
    integer :: iam = 0
#endif

#if (defined SPMD)

#if (defined OFFLINE)
    use mpishorthand
#endif

#if (defined OFFLINE)
    integer :: npes      !number of processors
    integer :: iam       !proc number
    logical :: masterproc !proc 0 logical for printing msgs
#endif
```

1.1.1 spmd_init (Source File: spmdMod.F90)

MPI initialization (number of cpus, processes, tids, etc)

INTERFACE:

```
subroutine spmd_init
DIR$ NAME (release_cache="_f90a_free_all")
```

CONTENTS:

```
#if (defined OFFLINE)
    call mpi_init(ier)
#endif
    call mpi_comm_rank(MPI_COMM_WORLD, iam, ier)
    if (iam==0) then
        masterproc = .true.
    else
        masterproc = .false.
    end if
```

```
call mpi_comm_size(MPI_COMM_WORLD, npes, ier)
return
```